

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: LUMIERE

Report Number: P221878

Luminaire Tested: **9004-W2-[RW, RI]-LED4080-S-BK-L2-UNV**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P221878  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29491)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMIERE  
Catalog Number: 9004-W2-[RW, RI]-LED4080-S-BK-L2-UNV  
Description: LUMIERE LANTERRA 9004 LED WALL LUMINAIRE, RECESSED LENS, SPOT OPTIC, BLACK HOUSING.  
Light Source: (1) 4000K CCT, 80 CRI LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3831.6 lumens  
Efficiency: N/A  
Efficacy: 95.3 lumens/watt  
Spacing Criteria (0/90/45): 0.27 / 0.27 / 0.27  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: General Diffuse

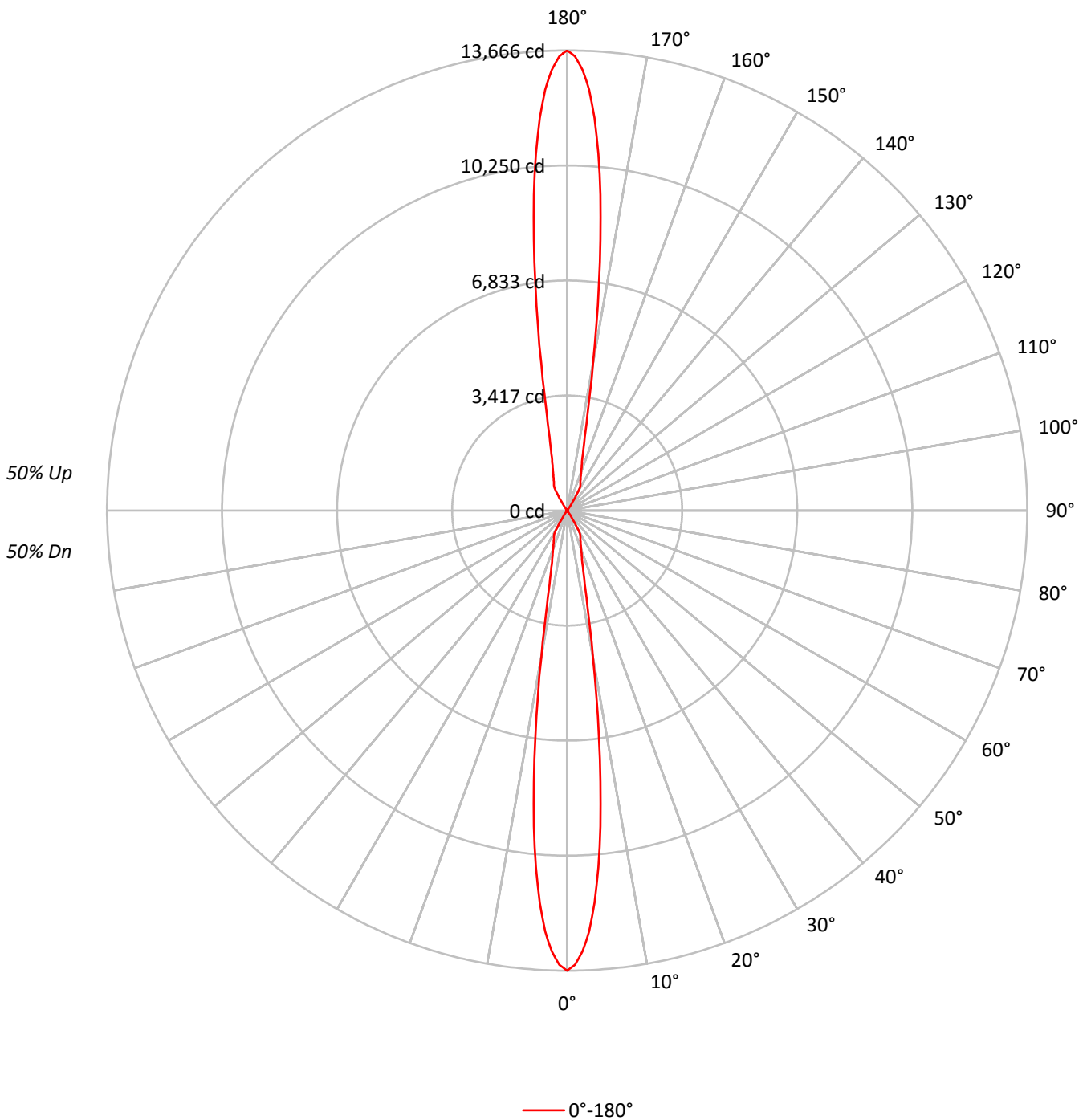
Input Watts (W): 40.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P221878

CATALOG NUMBER: 9004-W2-[RW, RI]-LED4080-S-BK-L2-UNV

### Luminous Intensity Polar Plot





TEST NUMBER: P221878

CATALOG NUMBER: 9004-W2-[RW, RI]-LED4080-S-BK-L2-UNV

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	101	98	95	93	93	91	88	86	78	76	75	65	65	64	54	54	53	48
2	95	90	86	82	88	84	80	77	73	70	68	62	61	59	53	52	51	47
3	90	83	78	74	83	78	74	70	68	65	63	59	57	56	51	50	49	45
4	85	77	72	68	79	73	68	64	64	61	58	57	54	53	49	48	47	44
5	81	72	67	62	75	68	63	60	61	57	55	54	52	50	48	46	45	42
6	77	68	62	58	72	65	60	56	58	54	52	52	49	48	46	45	43	41
7	73	64	58	54	69	61	56	53	55	52	49	50	47	45	45	43	42	40
8	70	61	55	51	66	58	53	50	53	49	47	48	46	44	44	42	41	39
9	67	58	52	49	63	56	51	47	51	47	45	47	44	42	42	41	39	38
10	64	55	50	47	61	53	48	45	49	45	43	45	42	41	41	40	38	37

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	1685641
5°	1316965
10°	554725
15°	235077
20°	159168
25°	126380
30°	93560
35°	8477
40°	3108
45°	942
50°	748
55°	839
60°	567
65°	438
70°	289
75°	381
80°	568
85°	0



TEST NUMBER: P221878

CATALOG NUMBER: 9004-W2-[RW, RI]-LED4080-S-BK-L2-UNV

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	800.7	20.9
10°-20°	565.8	14.8
20°-30°	432.0	11.3
30°-40°	105.9	2.8
40°-50°	5.7	0.1
50°-60°	3.1	0.1
60°-70°	1.5	0.0
70°-80°	0.8	0.0
80°-90°	0.3	0.0
90°-100°	0.5	0.0
100°-110°	0.8	0.0
110°-120°	1.5	0.0
120°-130°	3.1	0.1
130°-140°	5.7	0.1
140°-150°	105.9	2.8
150°-160°	432.0	11.3
160°-170°	565.8	14.8
170°-180°	800.7	20.9
0°-30°	1798.4	46.9
0°-40°	1904.3	49.7
0°-60°	1913.1	49.9
0°-90°	1915.8	50.0
90°-120°	2.9	0.1
90°-150°	117.6	3.1
90°-180°	1916.0	50.0
0°-180°	3831.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	13666	
5°	10636	801
15°	1841	566
25°	929	432
35°	56	106
45°	5	6
55°	4	3
65°	2	2
75°	1	1
85°	0	0
90°	0	0
95°	0	0
105°	1	1
115°	2	2
125°	4	3
135°	5	6
145°	56	106
155°	929	432
165°	1841	566
175°	10636	801
180°	13666	



TEST NUMBER: P221878

CATALOG NUMBER: 9004-W2-[RW, RI]-LED4080-S-BK-L2-UNV

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	13666.0
1°	13490.8
2°	13104.8
3°	12512.8
4°	11683.8
5°	10636.4
6°	9432.3
7°	8109.3
8°	6777.0
9°	5557.5
10°	4429.0
11°	3535.2
12°	2880.6
13°	2417.5
14°	2087.9
15°	1840.9
16°	1651.0
17°	1512.9
18°	1403.3
19°	1300.6
20°	1212.6
22.5°	1045.9
25°	928.6
26°	896.9
27°	870.7
28°	844.4
29°	775.0
30°	656.9
32.5°	295.6
35°	56.3
37.5°	30.9
40°	19.3
42.5°	8.5
45°	5.4
47.5°	4.6
50°	3.9
52.5°	3.9
55°	3.9
57.5°	3.1
60°	2.3
62.5°	2.3
65°	1.5
67.5°	0.8
70°	0.8
72.5°	0.8



TEST NUMBER: P221878

CATALOG NUMBER: 9004-W2-[RW, RI]-LED4080-S-BK-L2-UNV

**CANDELA DISTRIBUTION (continued):**

	0°
75°	0.8
77.5°	0.8
80°	0.8
82.5°	0.8
85°	0.0
87.5°	0.0
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.8
100°	0.8
102.5°	0.8
105°	0.8
107.5°	0.8
110°	0.8
112.5°	0.8
115°	1.5
117.5°	2.3
120°	2.3
122.5°	3.1
125°	3.9
127.5°	3.9
130°	3.9
132.5°	4.6
135°	5.4
137.5°	8.5
140°	19.3
142.5°	30.9
145°	56.3
147.5°	295.6
150°	656.9
151°	775.0
152°	844.4
153°	870.7
154°	896.9
155°	928.6
157.5°	1045.9
160°	1212.6
161°	1300.6
162°	1403.3
163°	1512.9
164°	1651.0
165°	1840.9
166°	2087.9
167°	2417.5



TEST NUMBER: P221878

CATALOG NUMBER: 9004-W2-[RW, RI]-LED4080-S-BK-L2-UNV

**CANDELA DISTRIBUTION (continued):**

	0°
168°	2880.6
169°	3535.2
170°	4429.0
171°	5557.5
172°	6777.0
173°	8109.3
174°	9432.3
175°	10636.4
176°	11683.8
177°	12512.8
178°	13104.8
179°	13490.8
180°	13666.0

(END OF REPORT)